

# CSP 2006 RI ENHANCEMENTS

Enhancement Activity	Description of Enhancement Activity	Benchmark Enhancement List Fields Where Activity Has Already Been Applied on your Farm		New Enhancements List Fields Where You Would Like to Apply the Activity, and Year			Unit	Payment Per Unit
		Field	Acres	Field	Acres	Years		
Enhancement - Energy Management	EEM40 Energy Audit						EA	500
Enhancement - Energy Management	EEM41 Recycling of all used motor oil for tractors and lubricating oil for other farm equipment such as irrigation pumps or grain drying motors.						YR	200
Enhancement - Energy Management	EEM42 Use of perennial legumes in the crop rotation to reduce energy need for production of nitrogen.						AC	0.7
Enhancement - Energy Management	EEM43 Use of annual legumes in the crop rotation to reduce energy need for production of nitrogen.						AC	0.1
Enhancement - Energy Management	EEM44 Use of manure to supply at least 90% of nutrient needs of plants.						AC	1.1
Enhancement - Energy Management	EEM45 Soil Tillage Intensity Rating (STIR) is less than 15						AC	0.9
Enhancement - Energy Management	EEM45 Soil Tillage Intensity Rating (STIR) is less than 30						AC	0.7
Enhancement - Energy Management	EEM45 Soil Tillage Intensity Rating (STIR) is less than 60						AC	0.5
Enhancement - Energy Management	EEM46 Use of renewable energy fuel (Biodiesel or Ethanol). Payments are made in \$25 increments for each 100 gallons actual biofuel used per year.						100 GAL	25
Enhancement - Energy Management	EEM47 Renewable energy generation (solar, wind, water, geothermal, methane).						100 KWH	2.5
Enhancement - Energy Management	EEM48 10% energy reduction.						BTU's	200
Enhancement - Energy Management	EEM48 20% energy reduction.						BTU's	500

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Enhancement - Energy Management	EEM48 5% energy reduction.						BTU's	100
Enhancement - Plant Management	EPL40 Improve plant management by establishing or maintaining native, culturally significant plants in field borders, vegetative barriers, contour buffer strips, waterways, shelterbelts, windbreaks riparian forest and herbaceous buffers.						AC	50
Enhancement - Plant Management	EPL41 Improve plant health and vigor by establishing or maintaining nectar producing plant corridors in field borders, vegetative barriers, contour buffer strips, waterways, shelterbelts, windbreaks, riparian forest and herbaceous buffers.						AC	50
Enhancement - Plant Management	EPL42 Improve plant management by implementing sustainable harvest techniques in cropped woodland and marshes that allow for natural regeneration of the desired species.						AC	25
Enhancement - Plant Management	EPL43 Improve plant health and vigor by utilizing tubing (with or without vacuum) and health spout taps ( $\leq 5/16"$ ) based on the live circumference of each tree: 10-17" dia. (36-54" circ.) = 1 tap; $\geq 18"$ dia. ( $\geq 55"$ circ.) = 2 taps.						AC	50

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Enhancement - Plant Management	EPL44 Improve plant health and vigor by collecting sap in buckets using health spout taps ( $\leq 5/16"$ ) based on the live circumference of each tree: 10-17.9" dia. = 1 tap; 18-23.9" dia. = 2 taps; $>24$ : diam. = 3 taps.						AC	125
Enhancement - Plant Management	EPL45 Improve plant health and vigor by utilizing a minimum 28" dropline to evenly distribute taps along each tree trunk.						AC	20
Enhancement - Plant Management	EPL46 Improve plant health and vigor by managing sugarbush with a minimum 25% non sugar maple species to minimize and reduce intensities of disease and pest outbreaks.						AC	30
Enhancement - Plant Management	EPL47 Improve plant health and vigor by selective thinning of cropped woodland and marshes to remove undesirable species and/or sustain the growth of the desired species according to a Management Plan.						AC	40
Enhancement - Plant Management	EPL48 Improve plant health and vigor by utilizing intercropping to increase biodiversity and minimize the number and intensity of pest and disease outbreaks.						AC	20

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Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.1 to 0.3.						AC	2.32
Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.4 to 0.6.						AC	5.8
Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.7 to 0.9.						AC	9.28
Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.0 to 1.2.						AC	12.76
Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.3 to 1.5.						AC	16.24
Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.6 to 1.8.						AC	19.72

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Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.9 to 2.1.						AC	23.2
Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 2.2 to 2.4.						AC	26.68
Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 2.5 or greater.						AC	29
Enhancement - Soil Management	ESM41 Reduce soil compaction by controlling areas of traffic that result in a Soil Tillage Intensity Rating (STIR) between 16 and 30.						AC	1
Enhancement - Soil Management	ESM41 Reduce soil compaction by controlling areas of traffic that result in a Soil Tillage Intensity Rating (STIR) between 31 and 60.						AC	0.5
Enhancement - Soil Management	ESM41 Reduce soil compaction by controlling areas of traffic that result in a Soil Tillage Intensity Rating (STIR) of 15 or less.						AC	2

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Enhancement - Soil Management	ESM42 Using GPS or other similar guided measure technology, reduce soil compaction by controlling areas of traffic that result in a Soil Tillage Intensity Rating (STIR) between 16 and 30.						AC	2
Enhancement - Soil Management	ESM42 Using GPS or other similar guided measure technology, reduce soil compaction by controlling areas of traffic that result in a Soil Tillage Intensity Rating (STIR) between 31 and 60.						AC	1
Enhancement - Soil Management	ESM42 Using GPS or other similar guided measure technology, reduce soil compaction by controlling areas of traffic that result in a Soil Tillage Intensity Rating (STIR) of 15 or less.						AC	4
Enhancement - Water Management	EWM 41 Participate in a field poly tubing recycling program (participant agrees to participate in a formal annual recycling program for poly tubing including polypipe and drip tape products.						YR	300
Enhancement - Water Management	EWM40 Irrigation Enhancement Index Level 1 - 60 - 64%.						AC	2
Enhancement - Water Management	EWM40 Irrigation Enhancement Index Level 2 - 65 - 69%.						AC	4
Enhancement - Water Management	EWM40 Irrigation Enhancement Index Level 3 - 70 - 74%.						AC	6
Enhancement - Water Management	EWM40 Irrigation Enhancement Index Level 4 - 75 - 79%.						AC	8

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Enhancement - Water Management	EWM40 Irrigation Enhancement Index Level 5 - 80 - 84%.						AC	10
Enhancement - Water Management	EWM40 Irrigation Enhancement Index Level 6 - 85% or greater.						AC	12
Enhancement - Water Management	EWM42 Remote Monitoring of Irrigation Pumping Plants (farmer incorporates sensing and remote notification technology as an integral part of the water management system).						YR	250
Enhancement - Grazing Management	EGM04 Mng grazing operations by excluding livestock in riparian areas, wetlands & other sensitive areas. Payment based on wet areas excluded.						Acre	50
Enhancement - Grazing Management	EGM05 Improve forage quality and decrease water quality impacts by increasing number of mgt units to decrease the number or occupational periods.						AC	28
Enhancement - Grazing Management	EGM06 Mng pasture & hayland quality by conducting forage quality & yield sampling & analysis. 50 ac. Max.						Acre	5.00
Enhancement - Grazing Management	EGM07 Mng improved forage quality on pastureland by utilizing legumes in >=50% of system with at least 30% legumes in those portions.						AC	25

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Enhancement - Grazing Management	EGM07 Mng improved forage quality on pastureland by utilizing legumes in >=90% system, with at least 30% legumes in those portions.						AC	45
Enhancement - Grazing Management	EGM19 Improve management efficiency by attending advanced seminar or wrkshop relating to livestock or ecology at least once every 2 years.						YR	75
Enhancement - Grazing Management	EGM33 - Improve pasture forage diversity by using native, perennial, warm season grasses in >=20% of the system.						AC	30
Enhancement - Nutrient Management	ENM01 Use split nitrogen app based on Pre-Side Dress Nitrate Test (PSNT) or similar soil test to match nutrient app to plant needs and reduce potential for nitrogen loss.						AC	3.45
Enhancement - Nutrient Management	ENM03 a. Field border -or other herbaceous conservation buffer 30' width minimum.						AC	5
Enhancement - Nutrient Management	ENM03 b. Riparian Forest Buffer - 50' width minimum.						AC	5
Enhancement - Nutrient Management	ENM06 Mng nutrient app. by conducting leaf tissue analysis sampling and following recommendations the next growing season. Paymt made year following implementation of recommendations.						AC	3.45



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Enhancement - Nutrient Management	ENM07 Conduct micronutrient testing to determine plant requirements. Use test results to optimize app rates for plant health and reduce negative impacts to environment.						Acre	3.45
Enhancement - Nutrient Management	ENM07 Conduct annual nutrient testing of soil and/or plant tissue. Utilize test results to optimize app. rates to reduce surface and ground water quality.						AC	3.45
Enhancement - Nutrient Management	ENM10 Incorporate manure w/in 24 hrs using equipmnt that preserves residue, reduces odors & limits potential for runoff.						AC	5
Enhancement - Nutrient Management	ENM11 Use fertilizer app methods that place nutrients as close as possible to root zone of plant, such as banding, side dressing, injection and fertigation.						AC	5
Enhancement - Nutrient Management	ENM14 Mng manure loading to fields, both from direct app and managing livestock stocking rate so total phosphorus app 10%< crop removal rates to prevent phosphorus buildup.						AC	2
Enhancement - Nutrient Management	ENM21 Use legumes in rotatn to improve soil fert & quality, forage, air quality, & wildlife benefits.						AC	5

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Enhancement - Nutrient Management	ENM29 Protect water quality and preserve nutrients in place by spreading manure only during growing season.						AC	2.4
Enhancement - Nutrient Management	ENM30 Improve waste management on farm by recycling and composting organic byproducts (clippings and unmarketable materials), used potting soil and peat pots (applies to nursery and vegetable operations only).						Cu. Yd.	15
Enhancement - Pest Management	EPM03 a. Chemicals are specifically selected and applied to reduce pesticide runoff and leaching potential. Switch one pesticide						AC	5
Enhancement - Pest Management	EPM03 b. Chemicals are specifically selected and applied to reduce pesticide runoff and leaching potential. Switch two pesticides						AC	6
Enhancement - Pest Management	EPM03 c. Chemicals are specifically selected and applied to reduce pesticide runoff and leaching potential. Switch three pesticides						AC	8
Enhancement - Pest Management	EPM03 d. Chemicals are specifically selected and applied to reduce pesticide runoff and leaching potential. Switch four pesticides						AC	10

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Enhancement - Pest Management	EPM03 Chemicals are specifically selected and applied to reduce pesticide runoff and leaching potential on orchards, nurseries, vegetables, berries, and other specialty crops.						AC	20
Enhancement - Pest Management	EPM04 Utilize a combination of biological, cultural, and/or mechanical control methods, (including Organic Certified systems) to control pests.						AC	10
Enhancement - Pest Management	EPM05 Improve pest management by spot spraying or treating weeds to limit the amount of herbicides used.						AC	5
Enhancement - Pest Management	EPM07 c. Plant and/or designate unsprayed insect refuges on farm according to IPM plan. Paymt on # of acres trap crop effect treats based on approved IPM plan or university literature.						AC	5
Enhancement - Pest Management	EPM07 d. Plant and or designate trap crops on farm according to IPM plan. Paymt made on # acres trap crop effect. treats based on approve IPM plan or university literature.						AC	5
Enhancement - Pest Management	EPM08 Use hooded, direct inject., or sensor control. sprayers, or other equipment to minimize app. rate.						AC	5

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Enhancement - Pest Management	EPM09 a. Manage pest populations by for vegetables with crop rotations to break disease cycles.						AC	5
Enhancement - Pest Management	EPM13 Manage invasive species and/or noxious weeds with hand cutting, biological controls, spot treatment or other individual plant treatment						AC	5
Enhancement - Pest Management	EPM14 e. Reduce pesticide applications by using biocontrols, such as beneficial insects, guineas or chickens to eat grubs and ticks, &/or using pheromone disruption						AC	5
Enhancement - Pest Management	EPM15 Manage pests by implementing recommendations from weather and pest forecasting services. 10 Ac. Max.						AC	5
Enhancement - Pest Management	EPM40 Reducing pesticide spray overlap through guided measure technology.						AC	8
Enhancement - Air Resource Management	EAM05 Grind stumps & chip pruning waste from orchard/vineyard or use prunings to form brush piles for wildlife, in lieu of burning.						AC	20.00

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Enhancement - Air Resource Management	EAM06 Mng hedgerows as visual screens of operations within view of public ROW (within 500 LF) that produce odors to reduce &/or control odors; from land app spray drift; for noise reduction. This activity applies to orchards, vegetable ops, and livestock ops						FT	1.10
Enhancement - Pest Management	EAM11 Control uniformity in application of pesticides by calibrating sprayers >=2 times per year.						YR	100
Enhancement - Air Resource Management	EAM22 Reduce odors using covers &/or curtains for existing waste storage and compost facilities and HUAs. Only facilities located within prevailing winds during operation and within 500 ft of adjoining non ag property qualify.						SQ FT	1.00
Enhancement - Air Resource Management	EAM23 Participate in a recycling program for inorganic agricultural by-products used in production, such as plastics, metals, and other manufactured materials.						YR	300

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Enhancement - Air Resource Management	EAM40 Investigate various Greenhouse Gas (GHG)/Carbon sequestration scenarios by utilizing the Carbon Management Evaluation Tool for Voluntary Reporting (COMET-VR) online web tool.						Year	500
Enhancement - Habitat Management	EHM02 Mng field borders to encourage or support species that enhance pollinator habitat.						AC	17
Enhancement - Habitat Management	EHM02 Mng TransZone along field edges to enhance native species community and habitats of special concern >= 30 ft wide.						AC	30
Enhancement - Habitat Management	EHM08 Mng native forested riparian corridor >=50 ft for all water courses to benefit aquatic species.						AC	57.5
Enhancement - Habitat Management	EHM09 Mng riparian & wetland areas so that >=75% of the upland borders have conservation buffer >=50' wide.						AC	65
Enhancement - Habitat Management	EHM09 Use 30 ft wide field borders by retiring previously cultivated land within last 5 years. Mng for native species commty.						AC	60
Enhancement - Habitat Management	EHM11 Exclude grazing and haying mgt >20% of the grassland sys until after nesting season (8/1), except for planned invasives species control.						AC	12

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Enhancement - Habitat Management	EHM12 Mng sm. mammal hab. using brush piles in or adjacent to woodland margins (200 ft. between brush piles).						FT	0.08
Enhancement - Habitat Management	EHM19 Do not cut managed field borders and conservation buffers during nesting season (April 1-August 1).						AC	18
Enhancement - Habitat Management	EHM20 Manage wildlife habitat according to a credible plan, including monitoring and assessing risk and health of the habitat. (Includes Wildlife assessments and SVAP)						AC	50
Enhancement - Habitat Management	EHM22 Annually manage fish habitat by maintaining fish passage at restrictions such as stream crossings and dams. Paymt based on per ft. width of stream. Maximum of 10 feet.						FT	50
Enhancement - Habitat Management	EHM22 Annually maintain barriers to exclude fish and other aquatic species from water diversions, or areas of unintentional entrapment could occur. Payment based on irrigated acres; max. of 50 acres.						AC	3.5
Enhancement - Habitat Management	EHM23 Annually manage bat nesting habitat by using bat houses.						No.	15
Enhancement - Habitat Management	EHM23 Annually manage nesting habitat by using nest boxes for targeted species. Requirements vary by target species.						No.	6

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Enhancement - Habitat Management	EHM26 Manage vernal pool habitat along field edges & incidental forest land. 10 ac. max. Refer to job sheet for management activities.						AC	100
Enhancement - Habitat Management	EHM36 Manage in-stream aquatic habitat for target fish and invert comm by using flow meters to measure irrigation water use. For irrigated acres only. Max. of 50 acres.						AC	20
Enhancement - Habitat Management	EHM37 Manage stormwater discharge from headquarters, greenhouses, parking areas, other impervious or hard-packed surfaces to wetlands and riparian systems. Max. of 5 acres.						AC	295